BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Drilling of borewells & Providing pipe line and supply of drinking water to public in Harohalli, Nagenahalli, Kenchanahalli, Doddabettahalli, Chikkabettahalli and Ananthpura village areas in ward No 01 and Ward No 03 of Yelahanka Division.

Modified Schedule-B

Sl. No.	Description of work	Unit	Quantity	Rate in Rs. In Figures	Rate in Rs. In Words
1	Geophysical investigation at site for sinking borewells for Providing drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above ground level). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell	Each BW	25.00	5784.98	Rupees Five Thousand Seven Hundred Eighty Four And Paise Ninety Eight Only
2	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete)	Rmtr	1250.00	404.77	Rupees Four Hundred Four And Paise Seventy Seven Only
3	50-100mtrs	Rmtr	1250.00	507.61	Rupees Five Hundred Seven And Paise Sixty One Only
4	100-150mtrs	Rmtr	1250.00	539.33	Rupees Five Hundred Thirty Nine And Paise Thirty Three Only
5	150-200mtrs	Rmtr	1250.00	625.76	Rupees Six Hundred Twenty Five And Paise Seventy Six Only
6	200-250mtrs	Rmtr	1250.00	734.06	Rupees Seven Hundred Thirty Four And Paise Six Only
7	250-300mtrs	Rmtr	1214.00	809.55	Rupees Eight Hundred Nine And Paise Fifty Five Only
8	300-350mtrs	Rmtr	1051.00	949.58	Rupees Nine Hundred Forty Nine And Paise Fifty Eight Only
9	350-400mtrs	Rmtr	240.00	1025.06	Rupees One Thousand Twenty Five And Paise Six Only
10	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible	Rmtr	1435.00	2114.67	Rupees Two Thousand One Hundred Fourteen And Paise Sixty Seven Only

	Description of work	Unit	Quantity	Rate in Rs.	
				In Figures	In Words
	PVC pipes of 10 Kg/cm2 for 200mm	m	240.00	1263.55	Rupees One Thousand Two Hundred Sixty Three And Paise Fifty Five Only
12	Providing and laying at site of work MS casing caps as per IS 1239 (partII) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge	Each	25.00	179.41	Rupees One Hundred Seventy Nine And Paise Forty One Only
13	Providing,supplying to work site, Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications,as per necessary ammendments and instructions of engineer incharge of work. 17.50 HP - 120 LPM @ 308 m = 26 STG Outlet Dia - 2.00" and as per the directions of the Engineer-in-charge of the work	Each	22.00	75861.16	Rupees Seventy Five Thousand Eight Hundred Sixty One And Paise Sixteen Only
14	Supply and delivery of galvanized mild steel tubes of 6mtr standard length heavy duty (C Class) as per IS 1239 (Part-I) 1990 with latest amendments with ISI Mark (one end fitted with Heavy Duty collar and other end fitted with protective cover) and as per the directions of the Engineer-in-charge of the work	Each	1129.00	3336.65	Rupees Three Thousand Three Hundred Thirty Six And Paise Sixty Five Only
15	Supply and delivery at site wrought middle steel (galvanized) GI union confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI Union	Each	22.00	292.09	Rupees Two Hundred Ninety Two And Paise Nine Only
16	Providing wrought mild steel (galvanized) GI collar confirming to IS 1239-II, 1991 with latest amendments if any For 50 mm dia GI collar	Each	1129.00	292.09	Rupees Two Hundred Ninety Two And Paise Nine Only
17	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI hexagonal nipple confirming to IS 1239-II, 1991 with latest amendments if any.	Each	44.00	233.02	Rupees Two Hundred Thirty Three And Paise Two Only
18	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI elbow confirming to IS 1239-II, 1991 with latest amendments if any for:	Each	66.00	292.09	Rupees Two Hundred Ninety Two And Paise Nine Only
19	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to13:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 V as per IS-694:2010. 3C x 6 mm2 and as per the directions of the Engineer-in-charge of the work	Mtr	13632.00	243.66	Rupees Two Hundred Forty Three And Paise Sixty Six Only
20	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions and as per the directions of the Engineer-in-charge of the work	Job	22.00	7110.89	Rupees Seven Thousand One Hundred Ten And Paise Eighty Nine Only
21	Labour charges for erection of outdoor type panel board and meter boardunits with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions and as per the directions of the Engineer-in-charge of the work	Job	22.00	1586.28	Rupees One Thousand Five Hundred Eighty Six And Paise Twenty Eight Only
22	1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 16 Sqmm, 4 Core, (11 GI Strips - 4 x 0.8 mm)	km	0.38	141066.12	Rupees One Lakh(s) Forty One Thousand Sixty Six And Paise Twelve Only
23	LABOUR For Stringing of 1.1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x16) (Street Light Control) (	km	0.38	32927.89	Rupees Thirty Two Thousand Nine Hundred Twenty Seven And Paise Eighty Nine Only

	Description of work	Unit	Quantity	Rate in Rs.	
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	rthing: Supplying and fixing and wiring earth electrode for grounding cir s IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia and as per the directions of the Engineer-in-charge of the work	Job	22.00	4102.44	Rupees Four Thousand One Hundred Two And Paise Forty Four Only
25	Providing,Supplying and fixing suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps,bolts,nuts and washers etc. with necessary materials and labour tools and equipments as per instructions of engineer incharge of work. 3 x6 Sqm and as per the directions of the Engineer-in-charge of the work	Each	22.00	410.24	Rupees Four Hundred Ten And Paise Twenty Four Only
26	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws 20" x 20" x 2.5"	Nos	22.00	324.35	Rupees Three Hundred Twenty Four And Paise Thirty Five Only
27	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixing to the existing wooden board for motor Above 12.5 HP upto 25 HP (	Nos	22.00	8716.06	Rupees Eight Thousand Seven Hundred Sixteen And Paise Six Only
28	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm	Each	109.00	1367.48	Rupees One Thousand Three Hundred Sixty Seven And Paise Forty Eight Only
29	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm	Each	109.00	1367.48	Rupees One Thousand Three Hundred Sixty Seven And Paise Forty Eight Only
30	Supply and delivery at site delivery of best indigenous brand new MCB (Miniature Circuit Breakers) of required capacity as per IS 88228/1978 and its latest amendments and with ISI Mark of 6/10/16/20/25/40 Amps with scalable box.	per 3 poles	22.00	1258.08	Rupees One Thousand Two Hundred Fifty Eight And Paise Eight Only
31	Earth work excavation for pipelines/cables by Manual means upto 600 mm trench width, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, including dressing of excavated surfaces, disposing off or leveling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m. Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering and lift upto 1.5 m including cost of labour, tools, usage& other appurtenances required to complete the work and as per the directions of the Engineer-in-charge of the work	Cum	1304.69	529.49	Rupees Five Hundred Twenty Nine And Paise Forty Nine Only
32	Providing and installing at site of work 6 Kg/m2: 63mm(weight of pipe - 0.662 kg) P.V.C. pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour charges and all lift charges, handling charges including encasing the pipe around to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete and as per the directions of the Engineer-in-charge of the work	mtr	0.00	13.82	Rupees Thirteen And Paise Eighty Two Only
33	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications and as per the directions of the Engineer-in-charge of the work	Cum	829.98	175.04	Rupees One Hundred Seventy Five And Paise Four Only

	Description of work	Unit	Quantity	Rate in Rs.	
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	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density	Cum	667.94	2799.44	Rupees Two Thousand Seven Hundred Ninety Nine And Paise Forty Four Only
35	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects	Cum	107.88	11983.00	Rupees Eleven Thousand Nine Hundred Eighty Three Only
36	Water Tanker (6 KL) (6KL/hr-725, For 10hr 725*10=7250 inclusive of GST)	Day	0.00	7931.00	Rupees Seven Thousand Nine Hundred Thirty One Only
37	Providing Causal Labours (Unskilled mazdoor Heavy)	Day	0.00	703.87	Rupees Seven Hundred Three And Paise Eighty Seven Only
38	Water Charges as BWSSB Rates 6000 ltr Tanker.Approved Rates By BWSSB	1.00	0.00	537.00	Rupees Five Hundred Thirty Seven Only
E1	Providing PVC ringtite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing nd commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. complete For:PVC pipes 63mm dia., 6 kg/sqcm & class 3	M	3977.60	176.13	Rupees One Hundred Seventy Six And Paise Thirteen Only
E2	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separatel	Cum	127.49	615.89	Rupees Six Hundred Fifteen And Paise Eighty Nine Only
E3	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383:2016:, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, primer, sealant, curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.	Cum	97.48	7388.54	Rupees Seven Thousand Three Hundred Eighty Eight And Paise Fifty Four Only

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